

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Salix alba*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	(+)-CATECHIN	Bark	--	--		
30	(+)-CATECHIN	Leaf	--	--		
7	(+)-GALLOCATECHIN	Leaf	--	--		
3	4-O-METHYL-GLUCURONOXYLAN	Wood	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	5-HYDROXY-PIPECOLIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ALBOSIDE	Leaf	--	--		
0	ALBOSIDE	Bark	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	ALKANES	Leaf	--	--		
0	ALPHA-CELLULOSE	Wood	444000	444000	0.5004271402489433	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ALPHA-GLUCAN	Wood	--	--		
5	ALUMINUM	Bark	11	67	-0.5550396921739252	
18	AMENTOFLAVONE	Leaf	--	120	1	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
101	APIGENIN	Bark	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
101	APIGENIN	Leaf	--	--		
0	APIGENIN-7-O-(4-COUMAROYL-GLUCOSIDE)	Leaf	--	--		
0	ARABINOSE	Wood	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
112	ASCORBIC-ACID	Bark	11	68	-0.7590997797668324	
0	ASH	Wood	8700	8700	-0.3367176185789884	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	ASH	Bark	18480	110000	1.115087296711096	
7	ASTRAGALIN	Pollen Or Spore	--	--		
53	BETA-CAROTENE	Bark	--	--		
28	CALCIUM	Bark	2369	14100	-0.4370254958547531	
0	CARBOHYDRATES	Bark	132552	789000	0.1675425295727926	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
43	CATECHIN	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	CATECHIN-TANNINS	Bark	30000	100000	-0.539163866017192	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CELLULOSE	Bark	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
24	CHROMIUM	Bark	--	--	-0.5811206277170047	
2	COBALT	Bark	1.6	9.8	-0.24303337741471084	
0	CUPRESSUFLAVONE	Leaf	--	76		
7	CYANIDIN	Leaf	--	--		
0	CYANIDIN-3-GLUCOSIDE	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
9	DELPHINIDIN	Leaf	--	--		
0	FAT	Bark	840	5000	-1.028138270682746	
15	FIBER	Bark	94000	94000	-0.9117907632310781	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	FIBER(CRUDE)	Bark	--	94000	-0.6456728630957406	
0	FIBER(DIETARY)	Bark	--	342000	-1.4343448213809635	
0	FRAGILIN	Bark	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	GALACTOSE	Wood	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	GLUCOMANNAN	Bark	13440	80000		
3	GLUCOMANNAN	Wood	--	--		
7	GLUCOSE	Wood	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GRANDIDENTATIN	Bark	--	--		
0	GRANDIDENTATUM	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	HEMICELLULOSE	Wood	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HOLOCCELLULOSE	Wood	752000	752000		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
6	IRON	Bark	3.5	21	-0.8131913600294701	
22	ISOQUERCITRIN	Bark	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
22	ISOQUERCITRIN	Leaf	--	--		
0	KILOCALORIES	Bark	2820	2820	0.3946883510725415	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	L-ARABINOFURANAN	Bark	--	--		
13	LIGNIN	Wood	255000	255000	-0.5502487987707242	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
65	MAGNESIUM	Bark	941	5600	2.6254909693205843	
14	MANGANESE	Bark	1	6.6	-0.6324201124151596	
0	NARCISSIN	Leaf	--	--		
39	NIACIN	Bark	17	99	0.5371806517826718	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
25	P-COUMARIC-ACID	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
24	PECTIN	Bark	--	--		
0	PENTOSANS	Wood	205000	205000	-0.4229635455131569	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
4	PHOSPHORUS	Bark	689	4100	2.414322016750521	
0	PICEIN	Leaf	--	0.09		
0	PICEIN	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
14	POTASSIUM	Bark	1651	9830	0.8279428053160491	
0	PROTEIN	Bark	16128	96000	0.6226380348007609	
176	QUERCETIN	Bark	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	QUERCETIN-3',7-DIEMTHYL-ETHER-3-O-BETA-D-GLUCOSIDE	Leaf	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	QUERCETIN-3,7-DI-O-BETA-D-GLUCOSIDE	Pollen Or Spore	--	--		
6	QUERCIMERITRIN	Bark	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
6	QUERCIMERITRIN	Pollen Or Spore	--	--		
0	RESIN	Bark	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
0	RHAMNOSE	Wood	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	RIBOFLAVIN	Bark	0.3	1.7	-0.4728416245792071	
87	RUTIN	Leaf	--	--		
87	RUTIN	Bark	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	SALICASE	Bark	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	SALICIN	Bark	4200	110000		

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15	SALICIN	Leaf	--	0.09		
1	SALICORTIN	Bark	--	--		
1	SALICORTIN	Leaf	--	0.27		
0	SALICYL-ALCOHOL	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
34	SALICYLIC-ACID	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
1	SALIDROSIDE	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	SALIREPOSIDE	Bark	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
60	SELENIUM	Bark	0.2	1.1	-0.4642594780283318	
4	SILICON	Bark	0.5	2.9	-0.5225882245845488	
1	SODIUM	Bark	20	120	-0.36966930405886916	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
5	STARCH	Bark	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	SYRINGOSIDE	Shoot	--	--		
35	TANNIN	Bark	20160	120000	-0.18444943107840175	
0	TERNIFLORIN	Leaf	--	--		
31	THIAMIN	Bark	--	--	-0.6585046078685182	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	THIAMINE	Bark	--	--	-0.7500000000000002	
4	TIN	Bark	2	12	-0.08992933794464256	
0	TREMULOIDIN	Leaf	--	0.2		
2	TRIANDRIN	Bark	--	--		
2	TRIANDRIN	Leaf	--	0.09		
2	TRIANDRIN	Plant	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
0	VIMALIN	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	WATER	Bark	--	832000	0.6414630202290136	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	XYLOSE	Wood	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
77	ZINC	Bark	0.4	2.1	-1.0319449224659927	